

Message

**From:** Arzuaga, Xabier [Arzuaga.Xabier@epa.gov]  
**Sent:** 6/23/2016 7:39:11 PM  
**To:** Lee, Janice [Lee.JaniceS@epa.gov]  
**CC:** Hotchkiss, Andrew [Hotchkiss.Andrew@epa.gov]; Subramaniam, Ravi [Subramaniam.Ravi@epa.gov]  
**Subject:** RE: Formaldehyde review  
**Attachments:** Formaldehyde\_draft TR\_ERC\_May 2016\_XA JL.pdf; Formaldehyde XA comments.docx

Hi Janice,

I hope you are enjoying the meeting and that your talk goes well. I completed the review of my MOA sections in the formaldehyde assessment. I am attaching my notes to this e-mail. Please let me know when it would be most convenient for you to meet and discuss our review and next steps. Cheers!

Xabier

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**From:** Arzuaga, Xabier  
**Sent:** Monday, June 20, 2016 3:48 PM  
**To:** Lee, Janice <Lee.JaniceS@epa.gov>  
**Cc:** Hotchkiss, Andrew <Hotchkiss.Andrew@epa.gov>; Subramaniam, Ravi <Subramaniam.Ravi@epa.gov>  
**Subject:** Formaldehyde review

Hi Janice,

I am still reviewing the formaldehyde MOA sections for non-cancer effects. Its taken more time than expected because I am not familiar with inhalation toxicology and I have been a bit slow. The highlighted rows below are the ones I have already covered.... I'm on the last pages of the section titled "mechanistic evidence related to potential non-cancer effects on the respiratory system". My draft notes are also below. Most of my comments are on minor changes. One issue that I am finding is that the authors of this section did not cite much and it is difficult to find which study reported what on the tables. I hope to finish by tomorrow or Wednesday. Thanks!

Xabier

List of MOA-mechanisms sections in TR	Reviewer
Sensory irritation; pp. 55-58 (includes MOA section on evidence integration). <i>3 page</i>	Janice
Pulmonary function; pp. 93-96 (includes MOA section on evidence integration). <i>3 pages</i>	Janice
Respiratory and Immune-Mediated Conditions, Including Allergies and Asthma; pp. 136-143 (includes MOA section on evidence integration). <i>7 pages</i>	Xabier
Mechanistic evidence related to potential noncancer health effects on the respiratory system; pp. 191-248 (includes MOA section on evidence integration). <i>57 pages</i>	Xabier, Janice
Nervous system effects; pp. 427-435 (includes MOA section on evidence integration). <i>8 pages</i>	Janice
Developmental and reproductive toxicity; pp. 476-483 (includes MOA section on evidence integration). <i>7 pages</i>	Xabier

# **Ex. 5 Deliberative Process (DP)**

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